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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/064,817	08/21/2002	Nigel Dennis Griffin	78.1151-1	9775	
26932	7590 12/13/2004		EXAMINER		
JEFFREY E. DALY GRANT PRIDECO, L.P.			JENKINS, DANIEL J		
	HOUSTON PARKWAY E	AST	ART UNIT	PAPER NUMBER	
SUITE 900 HOUSTON,	TX 77060		1742	1742	
•			DATE MAILED: 12/13/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/064,817	GRIFFIN, NIGEL DENNIS				
		Examiner	Art Unit				
	The MAN INC DATE AND	Daniel J. Jenkins	1742				
Period for	The MAILING DATE of this communication app Reply	ears on the cover sheet with the c	orrespondence address				
- Extens after Si - If the p - If NO p - Failure Any re	PRIENED STATUTORY PERIOD FOR REPLY IAILING DATE OF THIS COMMUNICATION.  ION. ION. ION. ION. ION. ION. ION. ION.	i6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from	nely filed s will be considered timely. the mailing date of this communication.				
Status							
1)⊠ F	1) Responsive to communication(s) filed on <u>27 September 2004</u> .						
	2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This action is non-final.						
3)□ S							
С	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
	n of Claims	, parte quayre, 1000 0.D. 11, 40	3 O.G. 213.				
4) 🖂 🔾	laim(s) 1-10 and 18-22 is/are pending in the	nnlination					
<ul> <li>4) ☐ Claim(s) 1-10 and 18-22 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> </ul>							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-10 and 18-22</u> is/are rejected.							
7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.							
		election requirement.					
Application	n Papers						
	ne specification is objected to by the Examiner						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1 121(d)							
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
1	der 35 U.S.C. § 119						
12)□ Ac a)□			(d) or (f).				
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of	References Cited (PTO-892)	4) 🔲 Interview Summary (F	PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date.							
Paper No	on Disclosure Statement(s) (PTO-1449 or PTO/SB/08) o(s)/Mail Date	5)  Notice of Informal Pat 6)  Other:	ent Application (PTO-152)				
J.S. Patent and Trader PTOL-326 (Rev.	nark Office	_	of Paper No /Mail Date 20044200				

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1. The Examiner has carefully considered Applicant's Response of 9/27/04. The Examiner finds that Applicant's amendment overcomes the rejection of 6/23/04. The Examiner makes a new rejection at this time.

2. Claims 1, 2, 4-10 and 18-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Butcher et al. in view of Fielder.

Butcher et al. discloses a method of making a cutter (see figure 5 and accompanying discussion) comprising :

providing a first tungsten carbide substrate (40);

providing a second tungsten substrate (38);

providing a polycrystalline/catalyst component (32); and

bonding the first and second substrate to the polycrystalline/catalyst component under high temperature and pressure (col. 4, lines 44-47 and col. 6, lines 12-16).

Butcher et al. discloses at col. 4, lines 60-65 wherein the carbide is tungsten carbide.

Butcher et al. further discloses wherein the catalyst comprises cobalt.

Butcher et al. further discloses wherein the cutter is engaged on a third substrate (36).

Butcher et al. further discloses wherein the first substrate is in annular form.

Butcher et al. discloses the invention substantially as claimed (see paragraph 3 above).

However, Butcher et al. do not disclose wherein the first substrate is grooved.

Fielder teaches that it is known in the art to groove a surface of a substrate cutter in the same field of endeavor for the purpose of improving the bonding between a substrate and a diamond/binder component.

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It would have been obvious to one having ordinary skill in the art at the time of the invention to groove the substrate (38) in the invention of Butcher et al. in order to improve the bond to the diamond/binder component.

3. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Butcher et al. in view of Nguyen et al.

Butcher et al. in view of Fielder discloses the invention substantially as claimed (see paragraph 3 above). However, Butcher et al. does not disclose wherein at least some of the PCD is located between the substrates.

Nguyen et al. teaches to form cutters of multiple layers of PCD wherein at least some the PCD is located between the substrate layers in the same field of endeavor for the purpose of providing a cutter with increased cutter life (col. 1, lines 33-40).

It would have been obvious to one having ordinary skill in the art to form the cutter of Butcher et al. with multiple PCD layers as taught by Nbuyen et al. in order to form a cutter with increased cutter life.

4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

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Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Claims 1-10 and 18-22 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-10 and 18-22 of copending Application No. 10/064,428. The pending Applications differ in the dependency of the grooved surface in the substrate. Independent claim 1 of this Application containing the limitation to the grooved surface.

This is a <u>provisional</u> obviousness-type double patenting rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Jenkins whose telephone number is 571-272-1242. The examiner can normally be reached on M-TH6:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1242. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel Jenkins Primary Examiner Art Unit 1742

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